

Listing of Claims:

-

I

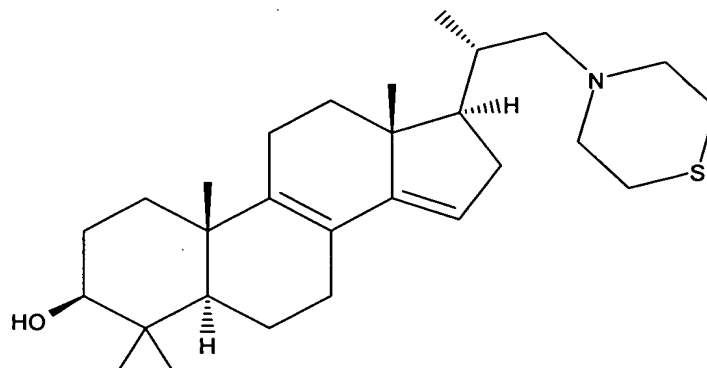
I,

wherein

R⁴ and R^{4'} independently, are selected from the group, comprising hydrogen and methyl.

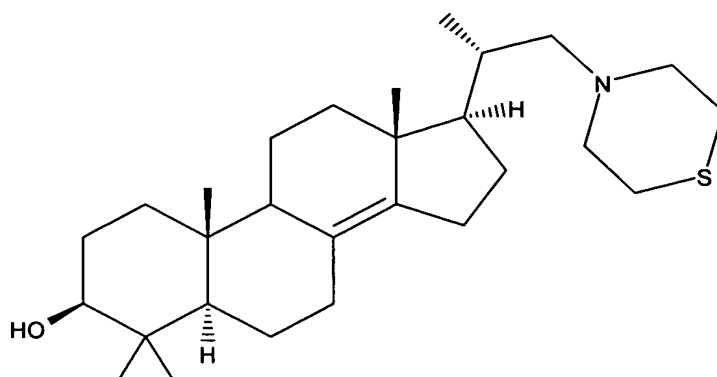
2. (Original) The steroid compound according to claim 1, wherein in the moiety with general formula I' one double bond is present between C⁸ and C¹⁴ or two double bonds are present between C⁸ and C⁹ and between C¹⁴ and C¹⁵ or two double bonds are present between C⁵ and C⁶ and between C⁷ and C⁸.
3. (Currently Amended) The steroid compound according to claim 1 ~~any one of claims 1 and 2~~, being selected from the group comprising:

(20S)-20-[(thiomorpholin-4-yl)methyl]-4,4-dimethyl-5 α -pregna-8,14-dien-3 β -ol:



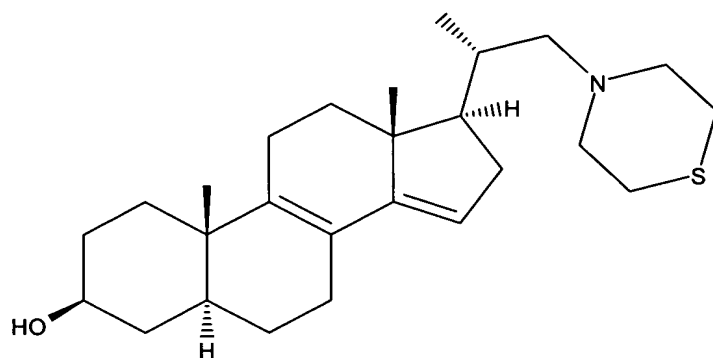
IA

(20S)-20-[(thiomorpholin-4-yl)methyl]-4,4-dimethyl-5 α -pregna-8(14)-en-3 β -ol:



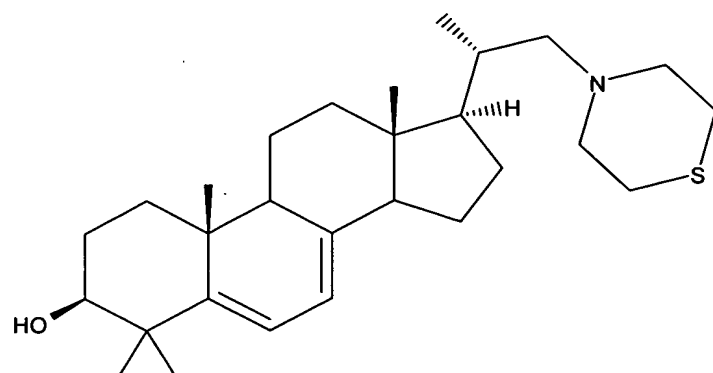
IB

(20S)-20-[(thiomorpholin-4-yl)methyl]-5 α -pregna-8,14-dien-3 β -ol:



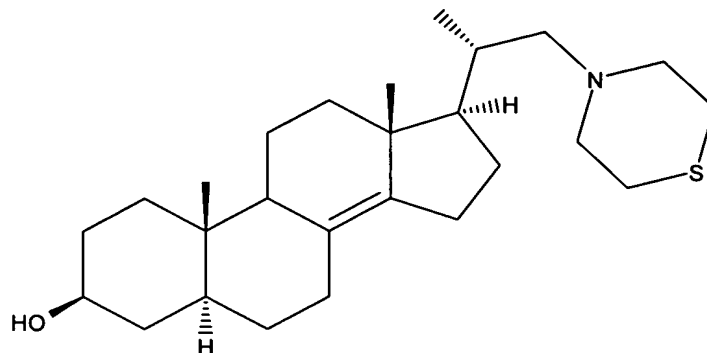
IC

(20S)-20-[(thiomorpholin-4-yl)methyl]-4,4-dimethyl-pregna-5,7-dien-3 β -ol



ID

(20S)-20-[(thiomorpholin-4-yl)methyl]-5 α -pregna-8(14)-en-3 β -ol:



IE.

4. (Currently Amended) A pharmaceutical composition comprising at least one thiomorpholino steroid compound of general formula I according to claim 1 ~~any one of claims 1—3~~ and at least one pharmaceutically acceptable excipient.
5. (Original) The pharmaceutical composition according to claim 4, wherein the steroid compound of general formula I is comprised in an effective amount.
6. (Currently Amended) A use of the thiomorpholino steroid compound of general formula I according to claim 1 ~~any one of claims 1—3~~ to the preparation of a pharmaceutical composition being useful to regulate reproduction, especially meiosis.
7. (Original) The use according to claim 6 for non-*in vivo* use.
8. (Currently Amended) A use of the thiomorpholino steroid compound of general formula I according to claim 1 ~~any one of claims 1—3~~ to the preparation of a contraceptive or of a profertility drug.
9. (Currently Amended) A method of regulating reproduction, especially meiosis, comprising administering to a subject in need of such a regulation an effective amount of at least one thiomorpholino steroid compound of general formula I according to

claim 1 ~~any one of claims 1—3.~~

10. (Currently Amended) A method for improving the possibility of an oocyte's ability to develop into a mammal, comprising contacting an oocyte removed from the mammal with the thiomorpholino steroid compound according to claim 1 ~~any one of claims 1—3.~~
11. (Original) A method for the preparation of (20S)-20-[(thiomorpholin-4-yl)methyl]-4,4-dimethyl-5 α -pregna-8,14-dien-3 β -ol, comprising
- a) starting from (20S)-20-hydroxymethyl-pregna-4-en-3-one;
 - b) introducing two alkyl groups in C⁴ by alkylation;
 - c) reducing the keto group to a hydroxy group;
 - d) protecting the resulting hydroxy group with an acyl group;
 - e) introducing a Δ^7 double bond by bromination/dehydrobromination;
 - f) isomerizing the dien $\Delta^{5,7}$ to the dien $\Delta^{8,14}$ by heating in the presence of acid;
 - g) oxidizing the 17-hydroxy group to an aldehyde group;
 - h) reductively aminizing the aldehyde group with thiomorpholine and removing the acyl group by reduction reaction
12. (Original) The method according to claim 11, wherein the acyl group is a benzoate group.